

Abstract

A method and apparatus are provided for dynamically routing a plurality of simultaneous point-to-point communications through an array of repeating transceivers. Each repeating transceiver may simultaneously act as each of a transmitter of origin for one communication, a final receiver for a second communication, and a repeater for a plurality of other communications. When acting as a repeater, each transceiver applies programmed delays to information before re-transmitting, and these delays are programmed so as to route a communication through the array of transceivers along a designed path along which multiple re-transmissions from local repeating transceivers are received, aligned in time for constructive reinforcement, and retransmitted after dynamically programmable time delays.